

**IN THE SPECIFICATION**

At page 15, line 14, delete “Figures 6A-6F”, and substitute therefor - -Figure 6A- -; still at line 14, delete “combined”; and still at line 14, delete “/schematic block diagram”. The specification should now read:

The process will now be described in detail with respect to a conventional refrigeration cycle. ~~Figures 6A-6F~~ Figure 6A is a ~~combined~~ flowchart/~~schematic block diagram~~ of the main steps of the present invention utilizing five field measurements. As described above, various gauges and sensors are known to those skilled in the art that are able to take the five measurements. Also, after reading this description, those skilled in the art will understand that more than five measurements may be taken in order to determine the efficiency and the best course of action for improving the efficiency of the refrigeration system.

At page 21, line 10, delete “2B” and substitute therefor - -6B- -. The specification should now read:

Referring now to Figure ~~2B~~ 6B, the evaporating temperature is used to distinguish between these two faults according to the flowing algorithm:

At page 22, line 3, insert - -Referring now to Figure 6C,- -. The specification should now read:

outdoor ambient temperature is indicated by a high CTOA. Three faults can cause this symptom: high charge, dirty condenser coil, or non-condensable gases in the refrigerant.

Referring now to Figure 6C, SC and CTD are used to identify the fault from among these possibilities using the following rule:

If (CTOA is High)

At page 22, after original line 21, insert --Referring now to Figure 6D: - -. The specification should now read:

Referring now to Figure 6D:

F.3 Check for a warm evaporator  
If (ET is High)

At page 23, at line 7, delete "Using" and substitute therefor - -Referring now to Figure 6E, using- -. The specification should now read:

F.4 Check for a cool evaporator - There are three faults that cause ET to become Low:  
low charge, refrigerant flow restriction, and a low side heat transfer problem.

~~Using~~ Referring now to Figure 6E, using SH and SC distinguish them in this rule:

At page 24, after line 22, insert - - Continuing to refer to Figure 6E:- -. The specification should now read:

Continuing to refer to Figure 6E:

F.5     Check if SH is High  
          If (SH is High)  
          If (SC is High)

At page 25, after line 18, insert - -Referring now to Figure 6F:- -. The specification should now read:

Referring now to Figure 6F:

F.6     Check if SH is Low  
          If (SH is Low)  
          If (SC is High)